

Small Fruit Commodity Survey – 2016

Principal Investigator – Juliet Carroll, NYS IPM Program, Cornell University

Introduction

A Small Fruit Commodity Cooperative Agricultural Pest Survey was conducted for exotic insects including Egyptian cottonworm (ECW), summer fruit tortrix moth (SFT), light brown apple moth (LBM), and silver Y moth (SYM). All the agricultural pests in the survey pose significant threats to NY fruit industries.

Objectives

1. Monitor and scout for the target species in berry plantings throughout the growing season of 2016 and submit suspect samples for determination.

Methods & Results

We adjusted the USDA APHIS written protocols for NY berry planting and growing season conditions. We monitored for the insects listed in Table 1, all of which were exotic pests not found in the Northeastern US.

Table 1. The insects in the survey included those listed with the number of traps in each planting site.

Insect or Disease	Abbr.	Scientific name	Traps/Site
Egyptian cottonworm	ECW	<i>Spodoptera littoralis</i>	2
summer fruit tortrix moth	SFT	<i>Adoxophyes orana</i>	2
light brown apple moth	LBM	<i>Epiphyas postvittana</i>	2
silver Y moth	SYM	<i>Autographa gamma</i>	2

Traps were set out in late June and serviced weekly until late September. Lures were replaced at the specified intervals.

Suspect insect specimens were brought back to our labs for pre-screening. A total of 321 non-target insects were caught in the traps and a subset of those were sent in for determination. Pre-screened suspect specimens of ECW, LBM, SFT or SYM were sent to Jason Dombroskie, Dept. of Entomology, Cornell University for determinations.

Table 2. The four berry plantings in the survey are listed below, including the owner, farm name, city, county, and crops monitored. Traps were serviced and diseases scouted at weekly or biweekly intervals, weather and spray schedules permitting.

Contact Person	Farm Name	City	County	Crops
Rick Reisinger	Reisinger's Apple Country	Watkins Glen	Schuyler	blueberry, raspberry
Mary Ann Grisamore	Grisamore Farms	Locke	Cayuga	strawberry, raspberry
Warren Abbott	Abbott Farms	Baldwinsville	Onondaga	blueberry, raspberry
Gary Craft	G & S Orchards	Macedon	Wayne	blueberry, raspberry

A total of 32 traps were monitored, evenly divided among the four insect species, and checked 8-9 times during the season. No quarantine pests, ECW, LBM, SFT, or SYM, were uncovered by the survey as detailed in the survey target sheet Excel files submitted with this report.